BALIUSV200

Single-beam autonomous bathymetry



Performance and Versatility

Hydrojet propulsion and single-beam sounder integrated into the hull Suitable for port areas, inland waters, lakes, rivers ... and for areas with very shallow depth (15 cm draft)

Large power reserve up to 10 knots (5 m / s)

GEOD[®] powered



Manual and / or autonomous bathymetry Real-time centimeter accuracy RTK Integrated web server compatible with many software Single Frequency (SF) and Dual Frequency (DF) Stable platform with low draft and compatible with many sensors (ADCP, sidescan sonar, echo sounders...)



Multi-applications

USV200

One surveyor can operate it Ultra-resistant carbon fiber hull Ideal for surveys of inland waters, ports, rivers... Navigation safety, dredging control

> BALI USV100 is a complete bathymetric survey solution, which is simple to operate and extremely accurate.

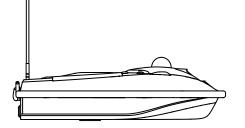
It comes with either a single frequency (SF) or a dual frequency (DF) echosounder for sounding up to 200 m with centrimetric accuracy.

BALI USVI00's structure is made with fiber carbon which makes it easy to carry, deploy and operate by only one operator.

Robustandcompact, USV100 can be used in any environnemental and hydrological conditions.



Technical characteristics		
Positioning	GPS, Glonass, Galileo and BeiDou dual-frequency RTK (1cm) - SBAS (0.5m)	
Sonding*		
• 450kHz frequency	Range : 0,15m - 100m	
	Accuracy : 0,2% of depth range or 2 cm	
	Angle beam : 5°	
• 200kHz frequency	Range : 0,4m - 200m	
	Accuracy : 0,2% of depth range or 2 cm	
	Angle beam : 9°	
30kHz frequency	Range : 0,4m - 200m	
	Accuracy : 0,2% of depth range or 2 cm	
	Angle beam : 26°	
Radio communication	GSM	
	Long-range UHF (403-473MHz)	
	Wifi (2.4GHz)	
I/O interface	Full system configuration	
	Mission planning	
	Real time monitoring	
	Real time navigation	
	Bathymetric data cleaning	
Data format		
Position	Latitude, Longitude, Altitude (WGS84) and XYZ	
Sonding	Water depth (meter)	
Data output	NMEA0183	
Software interface	Web browser (iOS, Android, Windows)	



Standard delivery

1 USV

- 1 rechargeable battery with charger
- 1 wireless base station
- 1 remote controller
- 1 BALI (smart antenna + echosounder)
- 1360° camera
- 1 anti-collision system
- Navigation and autopilot software
- 1 transit case on wheels

Optional delivery

Additional batteries BALI stand-alone assembly kit ADCP, sonar side scan, ... Oceanographic winch with SVP or multiparameter probe Launching trolley

*Other configurations available on request **Vacuum, without echosounder or inertial sensor ***Additional option

USV characteristics **		
Hull material	Carbon fiber	
Dimensions	160 x 70 x 40 cm	
Weight	32 kg	
Draft	15 cm	
	2 hydrojets	
Speed	5m/s max.	
Endurance (speed 1 m/s)	From 10h to 12h	
Remote controller range	1 km	
Wireless base station rane	2 km	

The USV platform is compatible with a multi-beam system***

